

### Executive Summary

The U.S. Army Corps of Engineers, Rock Island District (the District) is currently engaged in recovery operations for the June 2008 flooding. The District experienced severe flooding over most of its area of operations. Over 200 counties in five states were heavily impacted by the flooding which caused levee overtoppings at over a dozen sites. The District responded during the flood by deploying nearly 300 employees throughout the system to provide technical and flood fight command support, and provided nearly 13 million sandbags, 100 pumps, and over 30 miles of plastic to assist local communities and levee districts in their flood fight effort. Federal infrastructure was also heavily damaged by the flooding to include District reservoirs and recreation sites, wildlife areas, and the locks and dams along the Mississippi and Illinois Rivers.

Repairs to flood-damaged levee systems & flood control projects within the 78,000 square-mile jurisdiction of the District following a flood event are authorized by Public Law 84-99 (PL 84-99). To be eligible for Corps assistance under PL 84-99, a levee system or flood damage reduction project must be inspected and certified by the Corps of Engineers to be able to provide the design level of protection. Corps assistance to repair flood damaged levees is limited to major flood disaster(s) resulting in life-threatening or property damaging situations.

The District also experienced extensive flood damage to federally owned and operated project sites. District sites that have experienced damage include locks and dams 11-22, Illinois Waterway Locks and dams and our Iowa reservoirs — Coralville, Red Rock, and Saylorville. Most of the lock and dam facilities in the District were inundated from high river elevations and experienced some degree of damage. Funding has been provided for repairs to our Mississippi River locks and dams. Our reservoirs experienced flood damage from above or near record pool levels, inflows, and outflows with overtopping of emergency spillways.

In cooperation with USACE Headquarters and Division leadership and partner agencies at the local, state, and federal level, the District is fully engaged with flood recovery operations for both the levee system and District facilities. While all levee flood recovery work may take several years to complete, it is the District's goal to have all breaches closed by 21 March 2009. Government facility repair work is being prioritized and performed based on risk levels caused by the damages.

The U.S. Army Corps of Engineers is also leading the development of a collaborative regional approach to the long-term restoration of flood management systems damaged by the Midwest Floods of June 2008. The Corps is working with the Federal Emergency Management Agency and other federal, state and local agencies to assemble a Regional Interagency Levee Task Force (ILTF) to provide a uniform approach across the region impacted by the Midwest floods. The task force is an umbrella organization designed to look at flood plain management at a regional level and includes representatives from federal and state agencies. Interagency Levee Work Groups (ILWG) will operate in state Joint Field Offices to review assistance requests from local entities, evaluate non-structural alternatives for levee repairs (creation of expanded floodways and ecosystems), and participate in the levee restoration process.

## PL84-99 LEVEE RECOVERY

DSR = Damage Survey Report

PIR = Project Information Report

### Overview

Levees Damaged w/Request for Assistance	DSR's Complete	PIR's Complete	Estimated Repair Cost
38	34	21	

### Levee Breach Repair — Dredge Data

With recent midwinter snowmelt, rains, and flooding, the Matteson Dredge Iowa has been remobilized to finish the Lima Lake breach (50% complete) – it is estimated that the breach will be closed by 11 January. It is possible that their Dredge Little Rock will be repaired in another week and may join the Dredge Iowa to help finish the Indian Grave breaches. Expect definitive schedule and contract completion strategy from Matteson this week

### Pump Station Repairs

Project Name	Start Date	Finish Date
<b>Two Rivers</b>		
Pump Station #2	5-Dec-08	30-Sep-09
Pump Station #4	5-Dec-08	30-Sep-09
<b>Union Township</b>		
Pump Station	16-Jan-09	28-Feb-09
<b>Henderson 1 &amp; 2</b>		
Pump Station	25-Nov-08	25-Mar-09
<b>Gregory</b>		
Pump Station	11-Dec-08	30-Mar-09
<b>Lima Lake</b>		
Pump Station	19-Dec-08	16-Aug-09
<b>Hunt</b>		
Pump Station	18-Nov-08 (complete)	26-Jul-09
<b>Ottumwa</b>		
Pump Station	TBD	TBD
<b>Indian Graves</b>		
Pump Station	5-Dec-08	12-Jul-08

## Levees with Approved PIR's

### 1. Henderson County Drainage Districts 1 & 2 (Illinois)

- Request for Assistance — 25-Jun-08
- DSR complete
- PIR complete
- Work – Breach Repair; Pump Station Repair; Levee Repair
- Scheduled Bid Openings

Construction Milestones	Start Dates		Finish Dates	
	Schedule	Actual	Scheduled	Actual
Henderson #2 Breach Repair	8-Sep-08	8-Sep-08	28-Nov-08	2-Dec-08
Henderson #2 Site Prep	11-Sep-08	9-Sep-08	26-Sep-08	25-Sep-08
Henderson #1 Breach Repair	25-Nov-08	28-Nov-08	31-Dec-08	6-Dec-08
Henderson #1 and #2 Erosion/Scour Repairs	2-Apr-09		1-Jul-09	
Pump Station Evaluation and Repair	25-Nov-08		25-Mar-09	
Henderson #2 Seepage Berm	17-Mar-09		27-Mar-09	

### 2. Hunt Drainage District and Lima Lake Drainage District (Illinois)

- Request for Assistance — 10-Jul-08
- DSR complete
- PIR complete
- Work – Breach Repair; Pump Station Repair; Levee Repair; Access Road Repair
- Scheduled Bid Openings

Construction Milestones	Start Dates		Finish Dates	
	Schedule	Actual	Scheduled	Actual
Breach Repair (Canton Ferry and LD 20)	22-Oct-08	22-Oct-08	14-Feb-08	
Breach Repair (Through LD 20)	28-Oct-08	28-Oct-08	16-May-09	
Hunt Pump Station Repairs	18-Nov-08	18-Nov-08	26-Jul-09	
Lima Lake Pump Station Repairs	19-Dec-08		16-Aug-09	
Wave Wash Damage Repairs	20-Mar-09		15-Dec-09	
Seeding Sand Levees	3-Apr-09		29-Dec-09	
Access Road Damage Repair	17-Apr-09		12-Jan-10	

### 3. Indian Grave (Illinois)

- Request for Assistance — 23-Jun-08
- DSR complete
- PIR complete
- Work – Breach Repair, Pump Station Repair, Levee Repair
- Scheduled Bid Openings

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Breach Repair	22-Oct-08	22-Oct-08	15-Jan-09	
Diesel Engine Damage Assessment	26-Sep-08	26-Sep-08	30-Oct-08	30-Oct-08
Initial Pump Station Repairs	24-Nov-08		4-Apr-09	
Final Pump Station Repairs	5-Dec-08		12-Jul-09	
Wavewash Repairs	10-Mar-09		15-Nov-09	

#### 4. Two Rivers (Iowa)

- Request for Assistance — 23-Jun-08
- DSR complete
- PIR complete
- Work - Repair two levee breaches and two pump stations. Construct temporary levee near Iowa River. Repair levee wavewash and erosion areas.

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Temporary Levee	2-Jul-08	2-Jul-08	23-Jul-08	21-Jul-08
Miss. River Breach Repair	18-Sep-08	18-Sep-08	30-Nov-08	10-Nov-08
Iowa River Breach Repair	30-Mar-09		30-Jul-09	
Temporary Levee Raise	1-Dec-08	9-Dec-08	31-Dec-08	
Initial pump Station Repairs #2 and #4	11-Aug-08	23-Sep-08	28-Nov-08	
Final pump Station Repairs #2 and #4	5-Dec-08		30-Sep-09	
Levee Wavewash and Erosion Repairs	30-Mar-09		30-Sep-09	

#### 5. Union Township (Missouri)

- Request for Assistance — 16-Jul-08
- DSR complete
- PIR complete
- Work - Breach Repair; Pump Station Repair; Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Breach #2 - Dubuque Crew	12-Dec-08		22-Dec-08	
Breach #3 - Goetz Crew	20-Oct-08	24-Oct-08	4-Nov-08	4-Nov-08
Breach #4 - Goetz Crew	25-Aug-08	25-Aug-08	6-Sep-08	6-Sep-08
Breach #6 - Dubuque Crew	10-Nov-08	19-Nov-08	11-Dec-08	
Wave Wash and Scour Repairs	5-Apr-09		6-Jun-09	
Pump Station Repairs	16-Jan-09		28-Feb-09	

#### 6. Gregory (Missouri)

- Request for Assistance — 7-Aug-08
- DSR complete
- PIR complete
- Work - Repair eight levee breaches, Railroad closure and realignment, overtopping/wave wash damage and one pump station.

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Restore Fox River Breaches 1-3	12-Nov-08	9-Nov-08	31-Dec-08	
Restore Mainstem Breaches 4-7	18-Nov-08		21-Mar-09	
Restore Breach 8	18-Nov-08		21-Mar-09	
Railroad Closure Realignment	19-Jan-09		29-Apr-09	
Pump Station Repairs	11-Dec-08		30-Mar-09	
Overtopping & Wavewash Repairs	18-Mar-09		31-Jul-09	

#### **7. Mississippi-Fox (Missouri)**

- Request for Assistance — 7-Jul-08
- DSR complete
- PIR complete
- Work - Breach Repair of five breaches; Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Breach and Wave Wash Repair	30-Jan-09		TBD	
Reseeding	1-May-09		TBD	

#### **8. Canton (Missouri)**

- Request for Assistance — 7-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	15-Dec-08		28-Feb-09	

#### **9. Des Moines, IA LFPP (Iowa)**

- Request for Assistance — 7-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	10-Nov-08	1-Dec-08	23-Dec-08	

#### **10. Ottumwa (Iowa)**

- Request for Assistance — 16-Jul-08
- DSR complete

- PIR complete
- Work – Riprap repair, pump station repair, debris removal, and levee scour repair.

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	TBD		TBD	
Pump Station Repair	TBD		TBD	

#### **11. Green Island / Roger Tarr (Iowa)**

- Request for Assistance — 3-Jul-08
- DSR complete
- PIR complete
- Work - Breach repair; Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Breach Repair	3-Dec-08	8-Dec-08	15-Dec-08	

#### **12. Cascade (Iowa)**

- Request for Assistance — 14-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	16-Nov-08		19-Feb-09	

#### **13. South River (Missouri)**

- Request for Assistance — 7-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	16-Jan-09		31-Mar-09	

#### **14. Sny Island (Illinois)**

- Request for Assistance — 17-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	3-Apr-09		25-Sep-09	

#### **15. Bay Island (Illinois)**

- Request for Assistance — 11-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	TBD		TBD	

#### **16. Green Bay (Iowa)**

- Request for Assistance — 17-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	TBD		TBD	

#### **17. Marshalltown (Iowa)**

- Request for Assistance — 1-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	TBD		TBD	

#### **18. Waterloo (Iowa)**

- Request for Assistance — 19-Jun-08
- DSR complete
- PIR ongoing
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	16-Jan-09		31-Mar-09	

#### **19. Elkader (Iowa)**

- Request for Assistance — 2-Jul-08
- DSR complete
- PIR ongoing
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	16-Nov-08		19-Feb-09	

#### **20. Fabius River (Missouri)**

- Request for Assistance — 1-Jul-08
- DSR complete
- PIR complete
- Work - Levee Repair

<b>Construction Milestones</b>	<b>Start Dates</b>		<b>Finish Dates</b>	
	<b>Schedule</b>	<b>Actual</b>	<b>Scheduled</b>	<b>Actual</b>
Levee Repair	TBD		TBD	



## Levee PIR Development List

(The following may not be inclusive of all remaining PL 84-99 project work within the Rock Island District)

### 21. Louisa #11 (Iowa)

- Request for Assistance — 30-Jun-08
- DSR complete
- PIR ongoing
- Work - Breach repair; Levee Repair
- Project determination ongoing.

### 22. Evansdale (Iowa)

- Request for Assistance — 12-Nov-08
- DSR complete
- PIR ongoing
- Work - Levee Repair

Construction Milestones	Start Dates		Finish Dates	
	Schedule	Actual	Scheduled	Actual
Levee Repair	TBD		TBD	

### 23. Keokuk (Iowa)

- Request for Assistance — 14-Jul-08
- DSR complete
- PIR ongoing
- Work - Levee Repair

Construction Milestones	Start Dates		Finish Dates	
	Schedule	Actual	Scheduled	Actual
Levee Repair	TBD		TBD	

## FEMA REGION VII (IA, MO, MN) MISSION SUPPORT UPDATE

### Complete Missions

7220SU-IA-MVD-02 Deploy liaison to Regional Response Coordination Center Mission complete 27 Jun 2008  
1763DR-IA-MVD-01 Debris Subject Matter Expert's Mission complete 1 Jul 2008  
1763DR-IA-MVD-05 Commodities Mission complete 21 Jun 2008  
1763DR-IA-MVD-06 Power Mission complete 21 Jun 2008  
1763-DR-IA-MVD-10 Deployable Tactical Operations System Support Mission complete 1 Jul 2008  
1763DR-IA-MVD-12 Debris Removal/Disposal complete 17 Jul 2008  
1763DR-IA-MVD-13 Water/Wastewater Technical Assistance Mission complete 1 Jul 2008  
1763DR-IA-MVD-15 Water/Wastewater Restoration complete 17 Jul 2008

### Active Missions

#### **Temporary Housing Planning: 1763DR-IA-COE-MVD-03 (Iowa)**

Date Received: 9 Jun 2008

Projected Mission End Date: 12/30/2008

Mission Status: Continue to support the IA-TAC and Rental Pilot Program.

Personnel Status: 2 deployed

#### **Critical Public Facilities: 1763DR-IA-COE-MVD-14 (Iowa)**

Date Received: 21 Jun 2008

Projected Mission End Date: 11/30/2008

Mission Status:

##### **Cedar Rapids Admin Facility:**

- Complete.

##### **Cedar Rapids Transit Authority Facility**

- Complete.

##### **Cedar Rapids Fire Dept**

- Installation of in-plant modular units is complete. The facility will provide 6 sleeping rooms, computer room, storage closet and work-out room. Final inspection of the facility will be conducted once the warehouse owner completes agreed upon modifications to the bathrooms and kitchen. Following the inspection, the fire department will be ready to move in.

Personnel Status: 1 deployed

#### **GIS Support: 1763DR-IA-COE-MVD-16 (Iowa)**

Date Received: 30 Jun 2008

Projected Mission End Date: 10/31/2008

Mission Status: No personnel are currently deployed in support of this mission; however, the FEMA GIS POC has requested that the mission remain open until 12/31 in case additional support is required.

Personnel Status: 0 deployed

## FEMA REGION V (IL, WI) MISSION SUPPORT UPDATE

### **Complete Missions**

1771DR-IL-COE-MVD-01 FEMA Mission Planning Team complete 30 Jul 2008  
1771DR-IL-COE-MVD-04 Henderson Drainage District 1 & 2 Unwatering Mission complete 14 Oct 2008  
1771DR-IL-COE-MVD-02 Lima Lake Drainage District Unwatering Mission complete 1 Dec 2008  
1771DR-IL-COE-MVD-02 Indian Grave Drainage District Unwatering Mission complete 4 Nov 2008  
1771DR-IL-COE-MVD-04 Hunt Drainage District Unwatering Mission complete 15 Nov 2008

## OPERATIONS AND MAINTENANCE - LOCKS AND DAMS RECOVERY

CSA = Comprehensive Site Assessment

Site	Quick Site Assessment	Site Visit	Draft Project List	CSA Report Complete
<b>Mississippi River</b>				
L/D 11	-	12-Nov-08	5-Dec-08	19-Dec-08
L/D 12	-	12-Nov-08	5-Dec-08	19-Dec-08
L/D 13	10-Jul-08	23-Oct-08	5-Dec-08	19-Dec-08
L/D 14	10-Jul-08	TBD	5-Dec-08	19-Dec-08
L/D 15	10-Jul-08	TBD	5-Dec-08	19-Dec-08
L/D 16	30-Jun-08	24-Sep-08	19-Nov-08	28-Nov-08
L/D 17	30-Jun-08	18-Sep-08	19-Nov-08	28-Nov-08
L/D 18	1-Jul-08	19-Aug-08	19-Nov-08	28-Nov-08
L/D 19	1-Jul-08	1-Oct-08	19-Nov-08	28-Nov-08
L/D 20	8-Jul-08	7-Aug-08	19-Nov-08	28-Nov-08
L/D 21	7-Jul-08	18-Aug-08	19-Nov-08	28-Nov-08
L/D 22	7-Jul-08	12-Aug-08	19-Nov-08	28-Nov-08
<b>Illinois River</b>				
Peoria	TBD	TBD	TBD	TBD
LaGrange	TBD	TBD	TBD	TBD
Starved Rock	TBD	TBD	TBD	TBD

### Major Work Items

- Storage Yard Lock and Dams 21 & 22  
Work Concrete foundations are essentially complete at L/D 21. Concrete foundations are complete and the storage yard slab is approximately 50% complete at L/D 22. The contractor is making minimal effort due to current weather conditions.
- Storage Yard Lock and Dam 20  
Demolition of the service bridge extension has been completed. The contractor has also demolished the top portion of the existing concrete abutment walls. The sand stockpile from Stage 1B for the levee construction is complete. Sheet pile installation will commence in the near future.
- Lock and Dam 18  
This project is currently under design, with Plans & Specifications expected to be complete in January 2009. Anticipated construction would be during summer/fall 2009.
- Aluminum Bulkheads  
Mississippi Lock and Dam Aluminum Bulkheads Solicitation was posted on November 20, 2008 for materials to construct flood bulkheads. Anticipate delivery of materials in mid-late December. Lock and Dam personnel will fabricate bulkheads this winter based on EC-DS design.

## OPERATIONS AND MAINTENENCE - RESERVOIRS RECOVERY

### **Coralville Reservoir (Iowa)**

1. Flood Risk Management Items
  - Coralville Dam and Spillway
  - Amana Levee
  - Reservoir Rim Erosion
  - Outlet
2. Other Infrastructure
  - Clean-up and Debris Removal
  - Road Repairs
  - Equipment Repair/Replacement
  - Recreation Area Repairs

### **Red Rock Reservoir (Iowa)**

1. Flood Risk Management Items
  - Levee Repairs
  - Dam Mechanical Repairs
  - Reservoir Rim Erosion
  - Dredging of Sediment from Creeks and Cove Runoff
2. Other Infrastructure
  - Clean-up and Debris Removal
  - Road Repairs
  - Equipment Repair/Replacement
  - Recreation Area Repairs

### **Saylorville Reservoir (Iowa)**

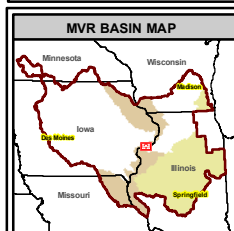
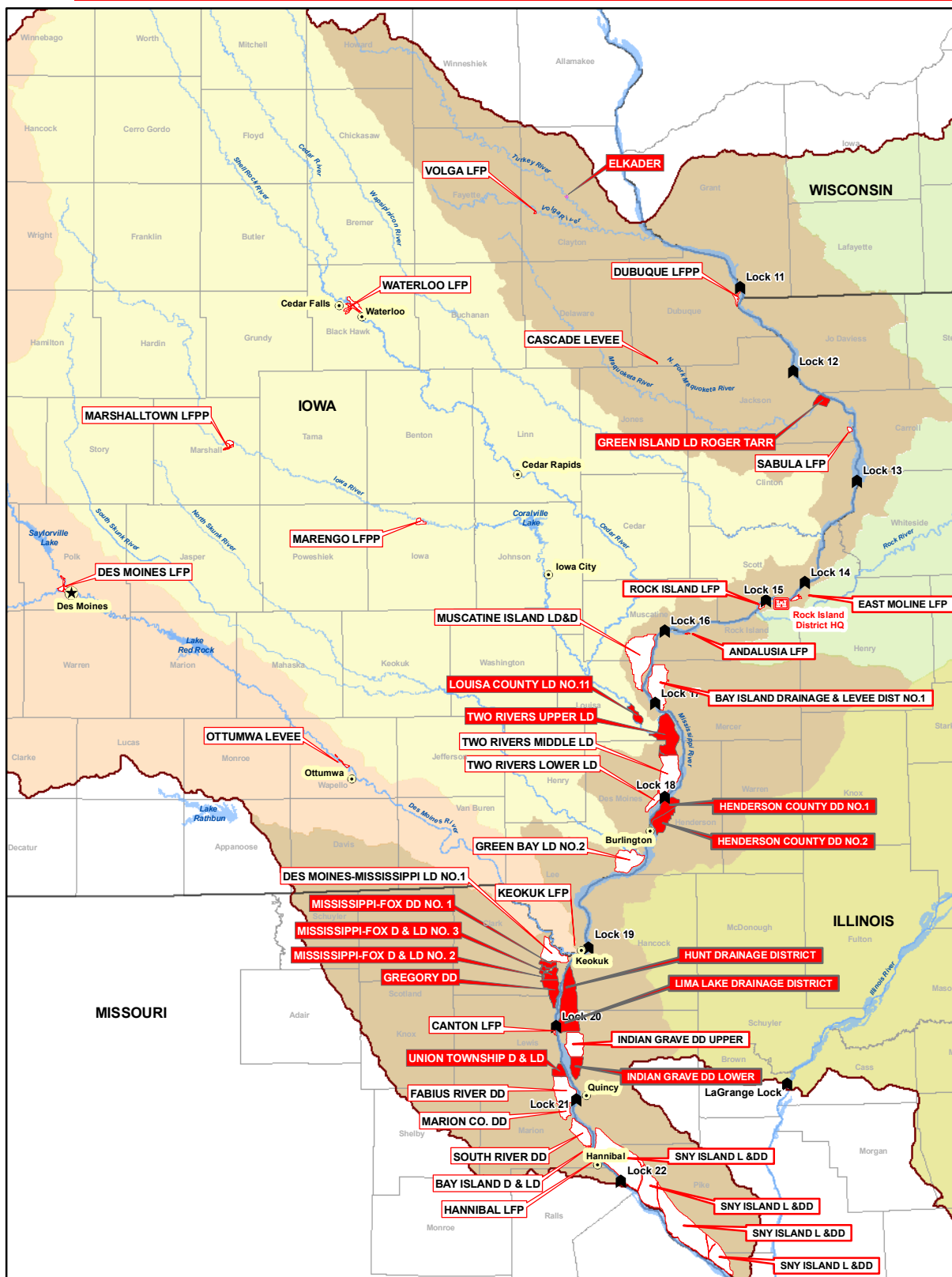
1. Flood Risk Management Items
  - Spillway Repairs
  - Barrier Dam Repairs
  - Outlet Wall Repairs
  - Control Tower Repairs
  - Reservoir Rim Erosion
  - Spillway Road
2. Other Infrastructure
  - Clean-up and Debris Removal
  - Road Repairs
  - Equipment Repair/Replacement
  - Recreation Area Repairs

### **Farm Creek Reservoirs (Illinois)**



- Flood Risk Management



09 SEP  
@  
1600 Hrs.










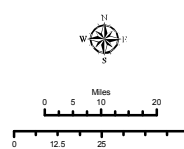
### LEEVE STATUS

	Letter of Request Received.
	Levee Overtopped Letter of Request Received

\* Map only displays those PL-84-99 levees that have submitted a formal Rehabilitation Assistance Request Letter.

### LEGEND

-  Rock Island District Boundary
-  Des Moines/Raccoon River Basin
-  Illinois River Basin
-  Iowa/Cedar River Basin
-  Mississippi River Basin
-  Rock River Basin
-  Locks and Dams



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FIUO

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